International Application No PCT/EP2004/008957

A CLAS	SCIENCATION OF SUBJECT MATTER		PC1/EP2004/008957
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Accordin	ng to International Patent Classification (IPC) or to both national c	lassification and IPC	
	DS SEARCHED		
IPC 7	n documentation searched (classification system followed by class 7 B01J C07C C10G	silication symbols)	
Documen	ntation searched other than minimum documentation to the exten	t that such documents are included	in the fields searched
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	edata base consulted during the International search (name of d nternal, WPI Data, PAJ	ala base and, where practical, sear	ch terms used)
C. DOCUI	MENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of t	he relevant passages	Relevant to claim No.
X	US 3 212 255 A (PUTT JOHN W E 19 October 1965 (1965-10-19) column 1, line 66 - line 68 column 2, line 22 - line 26;	1,8	
X	WO 01/68571 A (GRIFFITHS DAVID BP CHEM INT LTD (GB); BINMORE () 20 September 2001 (2001-09- page 6, line 10 - line 31; cla	1,2,8	
X	GB 2 353 734 A (INST FRANCAIS 7 March 2001 (2001-03-07) page 4, line 11 - line 16; cla 1,22,28-30	1,2,6,8	
DE 25 38 098 A (BRINCKMANN 10 March 1977 (1977-03-10) page 8. paragraph 3; table		•	1,6,8
		-/	
X Furth	ner documents are listed in the continuation of box C.	X Patent family member	s are listed in annex.
Special categories of cited documents: A' document defining the general state of the art which is not considered to be of particular relevance earlier document but published on or after the international filing date document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) document referring to an oral disclosure, use, exhibition or other means document published prior to the international filing date but later than the priority date claimed		To later document published after the International filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention. "X" document of particular relevance; the claimed invention carnot be considered novel or cannot be considered to involve an inventive step when the document is taken alone. "Y" document of particular relevance; the claimed invention carnot be considered to involve an inventive step when the document is combined with one or more other such documents combined with one or more other such documents, such combination being obvious to a person skilled in the art. "&" document member of the same patent family	
to of the ac	ctual completion of the International search	Date of mating of the intern	ational coarch report
26	October 2004		09. 02. 2005
me and ma	alling address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo ni,	Authorized officer	
	Fax: (+31-70) 340-3016	Deurinck, P	

Fig.

International Application No PCT/EP2004/008957

C.(Continu	ation) DOCUMENTS CONSIDERED TO BE RELEVANT	PCT/EP2004/008957		
Category *		Relevant to claim No.		
X	US 6 152 975 A (ELLIOTT DOUGLAS C ET AL) 28 November 2000 (2000-11-28) column 4, line 12 - line 18; claims 1,2,4	1,6,8		
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This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons: 1. Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely: 2. Claims Nos.: because they relate to parts of the historial Application that do not comply with the prescribed requirements to such an extent that no meaningful international Search can be carried out, specifically: 3. Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a). Box III Observations where unity of invention is facking (Continuation of Item 3 of first sheet) This International Searching Authority found multiple inventions in this international application, as follows: see additional sheet 1. As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims could be searched without effort justifying an additional tee, this Authority did not invite payment of any additional fee. 3. As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.: 4. No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the Invention first mentioned in the claims; it is covered by claims Nos.:	Box ii Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)	
1. Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely: 2. Claims Nos.: because they relate to parts of the international Application that do not comply with the prescribed requirements to such an extent that no meaningful international Search can be carried out, specifically: 3. Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a). Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet) This International Searching Authority found multiple inventions in this international application, as follows: see additional sheet 1. As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims. 2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee of any additional search Report covers only those claims for which fees were paid, specifically claims Nos.: 4. Who required additional search fees were simely paid by the applicant, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.: 1. 1, 2, 8	Continuation of item 2 of first sheet)	
because they relate to subject matter not required to be searched by this Authority, namely: 2. Claims Nos.: because they relate to parts of the international Application that do not comply with the prescribed requirements to such an extent that no meaningfut international Search can be carried out, specifically: 3. Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a). Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet) This international Searching Authority found multiple inventions in this international application, as follows: see additional sheet 1. As all required additional search fees were timely paid by the applicant, this international Search Report covers all searchable claims. 2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional lear of any additional search fees were timely paid by the applicant, this international Search Report covers only those claims for which fees were paid, specifically claims Nos.: 1. No required additional search fees were simely paid by the applicant. Consequently, this international Search Report is restricted to the invention first mentioned in the claims; it is covered by slaims Nos.: 1. No required additional search fees were simely paid by the applicant. Consequently, this international Search Report is restricted to the invention first mentioned in the claims; it is covered by slaims Nos.: 1. The additional search fees were accompanied by the applicant's protest.	This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:	
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically: 3.	Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:	
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FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1,2,8

dehydrogenation process

1.1. claim: 6

hydrogenation process

2. claim: 3

S02 oxidation

3. claim: 4

NO reduction with CO

4. claim: 5

CO methanisation

5. claim: 7

ethane hydrogenolysis

Information on patent family members

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